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RAW SEQUENCE LISTING

DATE: 01/23/2002

PATENT APPLICATION: US/09/766,678

TIME: 10:05:23

Input Set : N:\Crf3\RULE60\09766678.raw.txt
Output Set: N:\CRF3\01232002\I766678.raw

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SEQUENCE LISTING
      3 (1) GENERAL INFORMATION:
             (i) APPLICANT: Ullrich, Axel
      6
                            Risau, Werner
      7
                            Millauer, Birgit
                            Gazit, Aviv
      8
      9
                            Levitzki, Alex
     11
            (ii) TITLE OF INVENTION: Flk-1 Is A Receptor For Vascular
     12
                                      Endothelial Growth Factor
                                                               ENTERED
     14
           (iii) NUMBER OF SEQUENCES: 6
     16
            (iv) CORRESPONDENCE ADDRESS:
     17
                  (A) ADDRESSEE: Pennie & Edmonds
                  (B) STREET: 1155 Avenue of the Americas
     18
     19
                  (C) CITY: New York
     20
                  (D) STATE: New York
                  (E) COUNTRY: U.S.A.
     21
     22
                  (F) ZIP: 10036-2711
     24
             (V) COMPUTER READABLE FORM:
     25
                  (A) MEDIUM TYPE: Floppy disk
     26
                  (B) COMPUTER: IBM PC compatible
     27
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     28
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
     30
            (vi) CURRENT APPLICATION DATA:
C--> 31
                  (A) APPLICATION NUMBER: US/09/766,678
C--> 32
                  (B) FILING DATE: 25-Jan-2001
     33
                  (C) CLASSIFICATION:
     35
           (vii) PRIOR APPLICATION DATA:
     36
                  (A) APPLICATION NUMBER: 08/193,829
     37
                  (B) FILING DATE: 09-FEB-1994
     40
          (viii) ATTORNEY/AGENT INFORMATION:
     41
                  (A) NAME: Coruzzi, Laura A.
     42
                  (B) REGISTRATION NUMBER: 30,742
     43
                  (C) REFERENCE/DOCKET NUMBER: 7683-060
     45
            (ix) TELECOMMUNICATION INFORMATION:
     46
                  (A) TELEPHONE: (212)790-9090
     47
                  (B) TELEFAX: (212)869-9741
     48
                  (C) TELEX: 66141 PENNIE
     51 (2) INFORMATION FOR SEQ ID NO: 1:
     53
             (i) SEQUENCE CHARACTERISTICS:
     54
                  (A) LENGTH: 5470 base pairs
     55
                  (B) TYPE: nucleic acid
     56
                  (C) STRANDEDNESS: unknown
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(D) TOPOLOGY: unknown

57





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																	CGCGC		120
																	GTCTT		180
																	GGAG1		240
		CTGT	GCC1	.GA C	JAAAC	TGGG	C TC	TGT	CCCA	GGC	GCGF	AGGT	GCAG		G GA				294
	78													ME	et Gl	.u Se	er		
	79	7 7 C	CCC	CMC.	CITI N	COM	CMC	COM	CITIC.	шес	mma	maa	CmC	CAC	1	CCA	000		242
															ACC				342
	83	гуѕ	A1a 5	Leu	Leu	Ala	val	10	Leu	тр	PHE	Cys	15	GIU	Thr	Arg	Ald		
	85	GCC	TCT	GTG	GGT	TTG	ACT	GGC	GAT	TTT	CTC	CAT	CCC	CCC	AAG	CTC	AGC		390
	86	Ala	Ser	Val	Gly	Leu	Thr	Gly	Asp	Phe	Leu	His	Pro	Pro	Lys	Leu	Ser		
	87						25					30					35		
	89	ACA	CAG	AAA	GAC	ATA	CTG	ACA	ATT	TTG	GCA	AAT	ACA	ACC	CTT	CAG	ATT		438
	90	Thr	Gln	Lys	Asp	Ile	Leu	Thr	Ile	Leu	Ala	Asn	Thr	Thr	Leu	Gln	Ile		
	91					40					45					50			
															AAT				486
		Thr	Cys	Arg	-	Gln	Arg	Asp	Leu	_	Trp	Leu	Trp	Pro	Asn	Ala	Gln		
	95				55					60					65				
															GGT				534
		Arg	Asp		Glu	Glu	Arg	Val		Val	Thr	Glu	Cys	_	Gly	Gly	Asp		
	99			70					75					80					<b>5</b> 00
															GGA				582
	102		85		: Cys	гуѕ	THE			116	PIC	Arg			Gly	ASI	Asp		
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															GCC				630
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			GAC	' CAG	САТ			GTG	ТАС	ΑΤС				ΔΔα	AAC				726
															Asn				, 20
	115				135	_			-1-	140		0.20		1-	145	-			
			GTG	ATC			CGA	GGG	TCG			AAC	CTC	! AAT	GTG		CTT		774
															Val				, , -
	119			150		-1-	,	1	155					160					
			GCT			CCA	GAA	AAG			GTT	CCG	GAT		AAC	AGA	ATT		822
															Asn				
	123		165		4			170	-				175	_		- 9			
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		180		•			185					190		_			195		
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PATENT APPLICATION: US/09/766,678

DATE: 01/23/2002 TIME: 10:05:23

130 131	Tyr	Ala	Gly	Met	Val 200	Phe	Cys	Glu	Ala	Lys 205	Ile	Asn	Asp	Glu	Thr 210	Tyr	
	CAG	тст	ΔТС	ΔТС		ביד ב	СТТ	GTG	GTT		GGA	тат	AGG	Δ ጥጥ		САТ	966
	Gln																200
135	GIII	261	116	215	1 7 1	116	val	vai	220	Val	Gry	тут	Arg	225	1 7 1	кар	
	GTG	א חויחי	CTC		CCC	CCC	CAT	$C \lambda \lambda$		CAC	СПЛ	TO T	CCC		$C \Lambda \Lambda$	7 7 7	1014
																	1014
	Val	TTE	230	ser	PIO	PIO	птъ	235	TTE	GIU	Leu	ser	240	GIY	GIU	гуѕ	
139	C m m	CTC		70.70.00	mcm	7 (7 7	ccc		7 (° 7	CAC	СШС	תו מימ		CCC	Cmm	CAM	1060
	CTT																1062
	Leu	245	ьеи	ASII	Cys	1111	250	Alg	1111	Giu	Leu		val	СТУ	Leu	ASP	
143	mm/C		mcc	CAC	m c m	CCA		m C A	A A C	m Cm	C A m	255	N N C	7 7 C	a mm	CILIA	1110
	TTC																1110
	Phe 260	TIIT	пр	птѕ	ser	265	PIO	ser	гуѕ	ser	270	HIS	ьуѕ	гуѕ	тте	vai 275	
	AAC	CCC	CAT	C TH C	7. 7. 7.		mmm	CCM	CCC	N C/III		CCC	A A C	x mc	mmm		1150
																	1158
	Asn	AIG	ASP	vai	_	PIO	Pne	PIO	GIY		val	Ala	ьуѕ	мес		Leu	
151	100	7 CC	mmc	A (7 A	280	C 7 7	a Cim	CITIC	7.00	285	N C III	CAC	(1) 7	000	290	ma a	1206
	AGC																1206
	Ser	THE	ьeu		тте	GIU	ser	vaı		rys	ser	ASP	GIN	-	GLU	TAL	
155	N C C	mam	СШХ	295	maa	N C M	CCA	000	300	N III CI	7 7 C	202	3 3 m	305	202	mmm	1054
	ACC																1254
	Thr	Cys		Ата	ser	ser	GIÀ		мет	ше	ьys	Arg		Arg	Thr	Pne	
159	ama	GG 3	310	a . a	202	7.7.0	G G III	315	3 mm	C C III	mma	a a m	320	000	3 m/a		1202
	GTC																1302
	Val	-	val	HIS	Thr	гаг		Pne	ire	Ата	Pne	_	ser	GTÄ	мет	ràs	
163	т с т	325	ama	C 7 7	000	202	330	000	3 C III	C12 2	СШС	335	N m a	a a m	ama		1250
	TCT																1350
	Ser	Leu	val	GIU	Ala		val	СТА	ser	GIII		Arg	rre	Pro	val	-	
167		ama	7 Cm	шла	007	345	aam.	C A III	3 m/C	7 7 7	350	шас	101	2 2 m	<i>aa</i> ,	355	1200
	TAT																1398
	Tyr	ьец	ser	тут		Ald	PTO	ASP	тте		ттр	туг	Arg	ASII	-	Arg	
171	aca	N IDID	CAC	шаа	360	ma c	7 (7 7	N M C	A ITI ITI	365	CCC	C A M	C 7 7	ОШО	370	a m.c	1446
	CCC																1446
	Pro	тте	GIU		ASII	TAT	1111	мес		Val	GIY	ASP	GIU		THE	rre	
175	ATG	C A A	CTC	375	C 7 7	202	CAM	CCA	380	7 7 C	ma c	N CC	CMC	385	CITIC	N CC	1404
																	1494
	Met	GIU		TIII	GIU	AIG	Asp		GTA	ASII	туг	TIIT		тте	Leu	THE	
179	N N CT	aaa	390	man.	N III C	CAC	7 7 7	395	100	a a a	3 m/C	C TI C	400	ama	C mm	CITIC	1540
	AAC																1542
	Asn		тте	ser	мес	Glu	_	GIII	ser	HIS	мес		ser	ьeu	Val	Val	
183	3. 3. CD	405	003	000	ar a	N III (T	410	CAC	2 2 2	000	mmc	415	maa	a a m	3 m.c	C T C	1500
	AAT																1590
	Asn	Val	PIO	PIO	GIII		GTÀ	GIU	гуѕ	Ата		тте	ser	PIO	мес	_	
187		ma a	010	m a m	000	425	N m c	an a	202	mmc	430	maa	202	c m c	ma a	435	1620
	TCC																1638
	Ser	тАт	GTII	1 Å I.	_	1111	met	GTU	1111		IIII	cys	rnr	Vdl	_	AIG	
191	A A C	CCT	ccc	CTIC	440	CAC	አጥረ	CAC	TIC C	445	TICC	CNC	Cm v	~ ~ ~	450	CCC	1606
	AAC																1686
194	Asn	PLO	PLO	ьeu	HIS	HIS	тте	GTU	тгр	туr	тrр	GTU	ьeu	GIU	GTU	Αта	





## RAW SEQUENCE LISTING DATE: 01/23/2002 PATENT APPLICATION: US/09/766,678 TIME: 10:05:23

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195				455	~~~	~~~			460					465			4.77.0.4
								ACA									1734
198	Cys	Ser	Tyr 470	Arg	Pro	GLY	GIn	Thr 475	Ser	Pro	Tyr	Ala	Cys 480	Lys	Glu	Trp	
201	AGA	CAC	GTG	GAG	GAT	TTC	CAG	GGG	GGA	AAC	AAG	ATC	GAA	GTC	ACC	AAA	1782
202	Arg	His	Val	Glu	Asp	Phe	Gln	Gly	Gly	Asn	Lys	Ile	Glu	Val	Thr	Lys	
203		485					490					495					
205	AAC	CAA	TAT	GCC	CTG	ATT	GAA	GGA	AAA	AAC	AAA	ACT	GTA	AGT	ACG	CTG	1830
206	Asn	Gln	Tyr	Ala	Leu	Ile	Glu	Gly	Lys	Asn	Lys	Thr	Val	Ser	Thr	Leu	
207	500					505					510					515	
209	GTC	ATC	CAA	GCT	GCC	AAC	GTG	TCA	GCG	TTG	TAC	AAA	TGT	GAA	GCC	ATC	1878
210	Val	Ile	Gln	Ala	Ala	Asn	Val	Ser	Ala	Leu	Tyr	Lys	Cys	Glu	Ala	Ile	
211					520					525					530		
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214	Asn	Lys	Ala	Gly	Arg	Gly	Glu	Arg	Va1	Ile	Ser	Phe	His	Val	Ile	Arg	
215				535					540					545			
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218	Gly	Pro	Glu	Ile	Thr	Val	Gln	Pro	Ala	Ala	Gln	Pro	Thr	Glu	Gln	Glu	
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222	Ser	Val	Ser	Leu	Leu	Cys	Thr	Ala	Asp	Arg	Asn	Thr	Phe	Glu	Asn	Leu	
223		565					570					575					
225	ACG	TGG	TAC	AAG	CTT	GGC	TCA	CAG	GCA	ACA	TCG	GTC	CAC	ATG	GGC	GAA	2070
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227	580					585					590					595	
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230	Ser	Leu	Thr	Pro	Val	Cys	Lys	Asn	Leu	Asp	Ala	Leu	Trp	Lys	Leu	Asn	
231					600					605					610		
								ACA									2166
	Gly	Thr	Met		Ser	Asn	Ser	Thr		Asp	Ile	Leu	Ile	Val	Ala	Phe	
235				615					620					625			
								CAA									2214
	GIn	Asn		Ser	Leu	GIn	Asp	Gln	GLY	Asp	Tyr	Val	-	Ser	Ala	Gln	
239	~~~		630					635					640				
								CAT									2262
	Asp		Lys	Thr	Lys	Lys		His	Cys	Leu	Val		GIn	Leu	He	Ile	
243	O.T.	645	000	3 m.a	<b></b>	000	650	3 m G				655	a. a		~ ~		2210
								ATC									2310
		GIU	Arg	мес	Ата		мет	Ile	Thr	GIY		Leu	GIU	ASN	GIn		
247		7.00	a mm	000	CAC	665	3 mm	<i>(</i> 1	ama	3 (Jm)	670	<i>aa</i>	003	m a m	003	675	2250
								GAA									2358
251	1111	1111	тте	GTA	680	TIII	тте	Glu	Val		Cys	PIO	Ald	Ser	_	ASII	
	CCT	N.C.C	CCN	CAC		202	mcc	TTC	71 72 72 72 74 75	685	3 3 C	CAC	N C C	CmC	690	C A A	2406
																	2406
255	PIO	TIIT	PIO	695	тте	TIII	ттЬ	Phe	700	ASP	ASII	GIU	TIIT	705	νdΙ	GIU	
	CAT	ጥር አ	GCC		CTA	CTC	A C A	GAT		λ λ <i>C</i>	CCC	አአሮ	CTC		λ m.c	CCC	2151
								Asp									2454
259	asp	JUL	710	***	v u i	Leu	ary	715	GTÄ	กอน	лту	USII	720	TIIT	116	r i	
			, 10					, 13					120				

DATE: 01/23/2002

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PATENT APPLICATION: US/09/766,678 TIME: 10:05:23

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263		725					730					735					
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		Leu	Gly	Cys	Ala	Arg	Ala	Glu	Thr	Leu	Phe	Ile	Ile	Glu	Gly	Ala	
	740					745					750					755	
269	CAG	GAA	AAG	ACC	AAC	TTG	GAA	GTC	ATT	ATC	CTC	GTC	GGC	ACT	GCA	GTG	2598
270	Gln	Glu	Lys	Thr	Asn	Leu	Glu	Val	Ile	Ile	Leu	Val	Gly	Thr	Ala	Val	
271					760					765					770		
273	ATT	GCC	ATG	TTC	TTC	TGG	CTC	CTT	CTT	GTC	ATT	GTC	CTA	CGG	ACC	GTT	2646
	Ile	Ala	Met	Phe	Phe	Trp	Leu	Leu	Leu	Val	Ile	Val	Leu	Arg	Thr	Val	
275				775					780					785			
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	Lys	Arg		Asn	Glu	Gly	Glu		Lys	Thr	Gly	Tyr	Leu	Ser	Ile	Val	
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283		805					810					815					
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		Asp	Ala	Ser	Lys	_	Glu	Phe	Pro	Arg	_	Arg	Leu	Lys	Leu	_	
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	Leu	Lys		GLy	Ala	Thr	His		GLu	His	Arg	Ala		Met	Ser	Glu	
299	~		870					875		·			880				
															AAC		2982
	Leu	_	тте	Leu	тте	HIS		GTA	HIS	HIS	Leu		vaı	vaı	Asn	Leu	
303	C/T/A	885	000	maa.			890		000		am a	895	200	3 mm	ama		2020
															GTG		3030
		GTĀ	Ald	Cys	THE		PLO	СТА	СТА	Pro		мес	vaı	rre	Val		,
	900	maa	330	m.m.m	003	905	CITE A	m a a	N CITT	m a a	910	000	000	220		915	2070
															AGA		3078
	Pne	Cys	гуѕ	ыне		ASII	Leu	ser	THE		ьeu	Arg	GIY	гаг	Arg	ASII	
311	CAA	արարար	¢ m m	CCC	920	7 7 C	N.C.C	א א א <b>א</b>	CCC	925	CCC	mmc	CCC	CAC	930	7 7 C	2126
															GGC		3126
315	GIU	PHE	val	935	тут	гуѕ	261	гуѕ	940	АІа	AIG	Phe	Arg	945	Gly	гля	
	CAC	<b>ጥ</b> እ <i>C</i>	Стт		CAC	CTC	TCC	СТС		СТС	7 7 7	$\lambda \subset \lambda$	CCC		GAC	ACC	3174
																	31/4
319	ush	тут	950	атұ	GIU	пеп	Set	955	rsh	ьеи	цуб	нту	960	теи	Asp	261	
	<b>አ</b> ጥሮ	<b>ACC</b>		ΔCC	CAC	ACC	ጥሮጥ		ACC	<b>ጥ</b> ር እ	GCC	արար		CAC	GAG	מממ	3222
															Glu		3666
323	TT6	965	OGI	PET	GIII	Jei	970	та	SET	Ser	Эту	975	val	Gru	GIU	പുട	
	TCC		ΔCT	CAT	СПУ	GAG		CAA	CAA	CCT	ጥረጥ		CAA	CTC	TAC	A A C	3270
523	100		LOI	OHI	OIN	GAG	JAA	GAA	JAA	301	1 ( 1	JAA	GAH	CIG	TWC	nnu	3210

VERIFICATION SUMMARY

DATE: 01/23/2002

PATENT APPLICATION: US/09/766,678

TIME: 10:05:24

Input Set : N:\Crf3\RULE60\09766678.raw.txt
Output Set: N:\CRF3\01232002\1766678.raw

L:31 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:32 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:59 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1 L:740 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3 L:756 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=4